(12)

BRUHAT BANGLORE MAHANAGARA PALIKE

DASARAHALLI ZONE

T.DASARAHALLI SUB DIVISION

Name of Work: ***Providing Connecting Road to Navy layout in Bagalagunte ward no.14 of T.Dasarahalli Sub Division.Dasarahalli Zone.***

Esti Cost :- **34.20**Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

DASARAHALLI ZONE

Name of Work :-Providing Connecting Road to Navy layout in Bagalagunte ward no.14 of T.Dasarahalli Sub Division.Dasarahalli Zone.

Est. Cost Rs 34.20 Lakhs

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-4. Earthwork excavation and forming in embankment by manual means in in hard soil (when earth is taken from bank cutting or from borrow pits) including breaking of clods, spreading to required line and level, forming, and cost of all labour complete as per specifications. (Excluding watering and compaction of earth) MORTH Chapter 3. **Page No. 149/ Item No. 19.4/ PWD SR 2011-12** in hard soil	Cum							
	EWE for formation		1	372.00	6.00	0.15	334.80	120.96	**40497.00**
	Basic Rate	112.00							
	Area Weightage 8%	8.96							
	Total	**120.96**							
2	KSRRB M400-17: Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** Specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per Specifications. MORTH Specification No. 406 **Page No.166/ Item No. 20.18/PWD SR 2011-12**	Cum							
	wet mix macadam		1	372.00	6.00	0.25	558.00	1060.56	**591792.00**
	Basic Rate	982.00							
	Area Weightage 8%	78.56							
	Total	**1060.56**							
3	KSRRB 500-4: Providing and applying primer coat from 7.5 to 9.8 kg and 9.8 to 12.2 kg per 10 sqm for surfaces of low and medium porosity respectively over prepared surface of granular base with cut back M.C-70 or any other bitumen mixed with diesel at 10kg per 10sqm heated in bitumen boiler fitted with spray set (Excluding cleaning of road surface) including cost of all materials, labour, HOM of Machineries Complete as per Specifications.**medium porosity** MORTH Chapter 5 **Page No. 171/ Item No. 21.4/ PWD SR 2011-12**	Sqm							
			1	372.00	6.00		2232.00	74.47	**166217.00**
	Basic Rate	68.95							
	Area Weightage 8%	5.52							
	Total	**74.47**							

4	KSRRB M500-11: Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base/binding course including loading of aggregates with F.E loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50/75 mm compacted thickness with 80/100 Grade bitumen but excluding cost of primer/ tack coat with lead upto 1km including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 **Page No. 172/ Item No. 21.11.1/ PWD SR 2011-12**	Sqm							(10)
			1	372.00	6.00	0.05	111.60	5515.56	**615536.00**
	Basic Rate	5107.00							
	Area Weightage 8%	408.56							
	Total	**5515.56**							
5	KSRRB 500-9: Providing and applying tack coat on Granular base such as WBM and WMM surfaces hot bitumen primed at 10kg per 10sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all Materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 **Page No. 172/ Item No. 21.9/ PWD SR 2011-12**	Sqm							
				Qty vide Item No 3			2232.00	23.08	**51515.00**
	Basic Rate	21.37							
	Area Weightage 8%	1.71							
	Total	**23.08**							
6	KSRRB M500-17: Providing and laying semi dense bituminous concrete 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No. 500.8 complete in all respects as per specifications. 25-30mm Compacted thickness with 5% bitumen With 80/100 grade bitumen using 40-60 HMP using Mechanical paver **Page No. 174/ Item No. 21.20.5/ PWD SR 2011-12**	**Cum**							
			1	372.00	6.00	0.025	55.80	8029.80	**448063.00**
	Basic Rate	7435.00							
	Area Weightage 8%	594.80							
	Total	**8029.80**							
7	KSRRB 40-1.3: Carriage of mixed materials 10 kms Page No.168, PWD SR 2011-12)	Cum							
	1 to 2km 2xRs.5.75=Rs.11.50								

	2 to 5km 3xRs.5.50=Rs.16.50								
	5 to 10km 5xRs.5.20=Rs.26.00								
	Rs.54.00	Qty. Vide Item No. 2+4+6					725.40	58.32	**42305.00**
	Basic Rate	54.00							
	Area Weightage @ 8%	4.32							
	Total	**58.32**							
8	KSRRB 300-1: Earthwork excavation by manual means **in Hard soil** involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH Chapter 3. **Page No. 126/ Item No. 19.1/ PWD SR 2011-12**	**Cum**							
	EWE for BS Slab drains		1	372.00	0.75	0.750	209.25		
			1	322.00	0.75	0.750	181.13		
							390.38	87.05	**33982.00**
	Basic Rate	80.60							
	Area Weightage 8%	6.45							
	Total	**87.05**							
9	Providing Granite slabs selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete 7.5 thick (P. 27 I. 5.31.1) **Page No. 28/ Item No. 5.31.1/ PWD SR 2011-12**	**Sqm**							
	7.5cm Thick BS Slabs		1	372.00		1.80	669.60		
			1	322.00		1.80	579.60		
							1249.20	321.18	**401218.00**
	Basic Rate	303.00							
	Area Weightage 6%	18.18							
	Total	**321.18**							
10	KSRB-2-2.2: Earthwork excavation for foundation of buildings, water supply, sanitary, lines and electrical conduits either in pits or in trenches 1.5 m and above in width, **in hard soil** not exceeding 1.5m. in depth including dressing the bottom and and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead up to 50 m. after breaking of clods complete as per specifications. Specification No. KBS 2.1(b) 2.3.5 **Page No. 5/ Item No. 2.4/ PWD SR 2011-12**	**Cum**							
	Earth work for CCDrain		1	50.00	1.50	1.20	90.00		
	For Culverts		1	20.00	2.20	1.00	44.00		
			1	15.00	2.70	1.00	40.50		
	Basic Rate	201.00					**174.50**	213.06	**37179.00**
	Area Weightage 6%	12.06							
	Total	**213.06**							

11	KSRB 4-1.3: Providing and laying in position **plain cement concrete of mix M7.5** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.8[illegible]cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not exceeding 15cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS : 4.1, 4.2 **Page No. 12/ Item No. 4.3/ PWD SR 2011-12**	**Cum**							(8)
	CC Drain		1	50.00	1.50	0.15	11.25		
	For Culverts		1	20.00	2.20	0.15	6.60		
			1	15.00	2.70	0.15	6.08		
							23.93	3843.56	**91957.00**
	Basic Rate	3518.00							
	Add Difference cost of Cement 0.18x600=	108.00							
		3626.00							
	Area Weightage 6%	217.56							
	Total	**3843.56**							
12	KSRB 5.4-2 Providing and constructing granite / trap / basalt rubble stone masonry in **superstructure with cement mortar 1:8,** edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 26/ Item No. 5.11/ PWD SR 2011-12**	**Cum**							
	SSM wall		2	20.00	0.60	1.00	24.00		
			2	15.00	0.60	1.00	18.00		
							42.00	3271.68	**137411.00**
	Basic Rate	3051.00							
	Add Difference cost of Cement 0.0627x600=	37.62							
		3088.62							
	Area Weightage 6%	183.06							
	Total	**3271.68**							
13	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix **M15** with OPC cement @ 240kgs, with **20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @0.459cum machine mixed, concrete laid in layers not exceeding 15cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS : 4.1, 4.2 **Page No. 12/ Item No. 4.6/ PWD SR 2011-12**	**Cum**							
	Coping concrete		2	20.00	0.60	0.075	1.80		
			2	15.00	0.60	0.075	1.35		
							3.15	4349.18	**13700.00**
	Basic Rate	3959.00							
	Add Difference cost of Cement 0.24x600=	144.00							
		4103.00							
	Area Weightage 6%	246.18							
	Total	**4349.18**							

14	KSRB 4.2.8: Providing and laying in **position reinforced cement concrete of mix M20** with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.9cum and fine aggregates @ 0.46cum super plastisiser @3ltrs confirming to IS9103-1999 Reaffirmed-2008,, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for R.C.C. beams, columns of all sizes in foundation plinth and superstructure ground floor level for column, including cost of all materials, labour, HOM of machinery, curing, complete as per specification. Specification NO. KBS 4.1, 4.6 **Page No. 15/ Item No. 4.17/ PWD SR 2011-12**	**Cum**							
	Bottom drain		1	50.00	1.30	0.15	9.75		
	Sides		2	50.00	0.18	1.05	18.90		
	RCC Covering Slab		1	50.00	1.30	0.20	13.00		
	RCC Deck Slab		1	20.00	2.00	0.23	9.20		
			1	15.00	2.50	0.23	8.63		
	Basic Rate	4674.00					**59.48**	5157.96	**306770.00**
	Add Difference cost of Cement 0.32x600=	192.00							
		4866.00							
	Area Weightage 6%	291.96							
	Total	**5157.96**							
14	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 19/ Item No. 4.46/ PWD SR 2011-12**	q							
	60 kg / cum		41.65	Cum	60.00	Kgs	2499.00		
	80 kg / cum		17.83		80.00	Kgs	1426.00		
							3925.00		
					Say Qtl		**39.25**	7347.82	**288402.00**
	Basic Rate	5910.00							
	Add Extra rate for Steel	893.54							
	Total	6803.54							
	Area Weightage 8%	544.28							
	Total	**7347.82**							
15	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 17/ Item No. 4.31/ PWD SR 2011-12**	**Sqm**							
			2x2	50.00		1.00	200.00		
			1	20.00		2.00	40.00		
			1	15.00		2.50	37.50		
	Basic Rate	205.00					277.50	217.30	**60301.00**
	Area Weightage 6%	12.30							
	Total	**217.30**							

									(6)
16	KSRB 15.1.6: Providing raised and cut pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, lab curing complete as per specifications. **Page No.119/ Item No. 15.6 / PWD SR 2011-12**	**Sqm**							
	20+15		2	35.00		1.00	70.00		
		Basic Rate	98.50				70.00	106.38	**7447.00**
		Area Weightage 8%	7.88						
		Total	**106.38**						
17	KSRRB M800-11.1. **Painting lines, dashes, arrows etc., on roads in two coats on new work**:- Painting lines, dashes, arrows etc., on roads in two coats on new work with ready mixed road marking paint conforming to IS: 164 on bituminous surface, including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control complete as per specifications. i) Over 10 cm in width. MORTH Specification No. 803. **Page No. 193/ Item No. 24.11/ PWD SR 2011-12**	**Sqm**							
			3	372.00	0.15		167.40	100.66	**16850.00**
		Basic Rate	93.20						
		Area Weightage 8%	7.46						
		Total	**100.66**						
17	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 15 Km a) Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading Item No. 17.1 KSRRB M 100-1 Rs. 62.00 (P.147 I.18.57/1)	Cum							
			Qty. Vide Item No. 1,7 & 9				**899.68**		
	4kms	Basic Rate	10.24	Qty limited to			**878.00**	78.24	**68695.00**
		Loading and Unloading Charges	62.20						
			72.44						
		Area Weightage @ 8%	5.80						
		Total	**78.24**						
18	Miscellaneous and UnforessenCharges								**163.00**
								Total	**3420000.00**

(Rupees Thirty Four Lakhs Twenty Thousand Only)

CERTIFICATE:-

1 The Work spot has been inspected and the work is found to be necessary
2 The Estimate is prepared as per the PW,P & IWTD -SR-2011-12
3 The Provision made in estimate are adequate and essential.
4 This area comes under BBMP limits.

A/s.

Assistant Engineer
Ward-14

ಸಂ. JC(D)AS 189/12-13 ದಿನಾಂಕ : 2/6/12
34.20 Lakhs
Thirty four Lakh & Twenty Thousand Only
Page No. 131
Sl No. 189
MAYOR GRANTS.

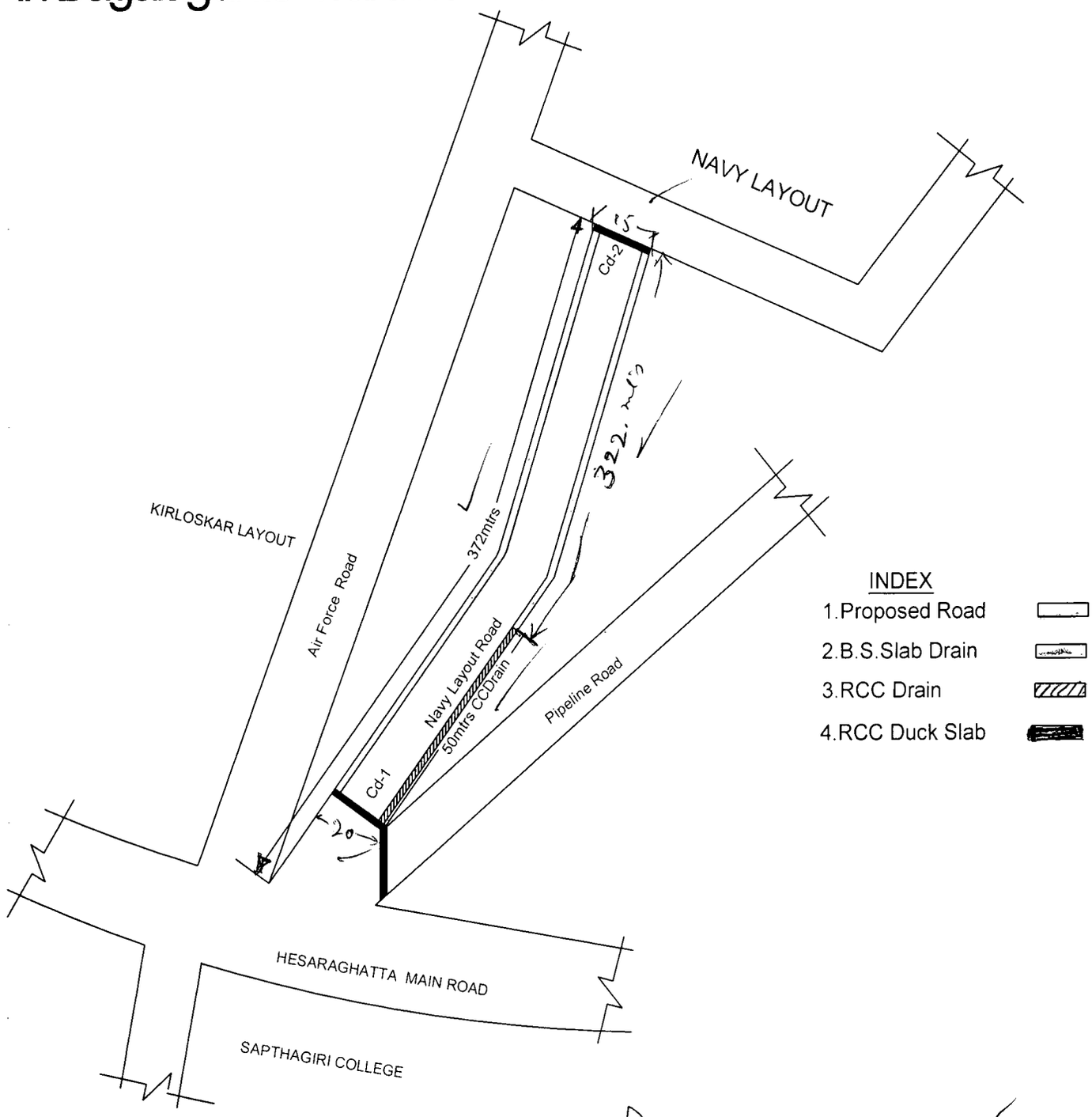
Assistant Executive Engineer
T. Dasarahalli Sub-Division
B.B.M.P

ಪತ್ರ ಸಂ.TS/11/12-13 ದಿನಾಂಕ : 06/06/2012
ರೂ. 34.20 (Lakh) Thirty four Lakh & Twenty Thousand Only
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು

Executive Engineer
Dasarahalli Division
B.B.M.P. Bangalore
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಪ.ಪ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು
06/06/12

(5)

NAME OF WORK: Providing Connecting Road to Navy layout in Bagalagunte ward no.14 of T.Dasarahalli Sub Division.



Assistant Engineer
Ward No.14

Assistant Executive Engineer
T.Dasarahalli Sub Division
B.B.M.P

Executive Engineer
Dasarahalli Division
B.B.M.P